

on/24/10/84

ABSTRACT OF THE DISCLOSURE

A compact, portable weather station for predicting local extreme weather conditions and for reporting remote weather conditions. The weather station has sensors for determining local temperature, barometric pressure, humidity, ambient light, and ambient static charge. A microprocessor has memory for storing data relating to past weather conditions and data processing apparatus and algorithms for determining probable developing weather conditions responsive to sensed local conditions. The weather station has a radio receiver for communicating with global weather reporting communications systems utilizing cellular communications. Operating commands, predicted local weather conditions, and remote weather conditions are annunciated in synthesized voice in any one of a variety of predetermined languages. The weather station includes voice synthesizing and recognition apparatus for annunciating verbal prompts and weather conditions, and for responding to vocal control. The weather station is formed in two separable components, one having sensors and the other having radio communications apparatus. The microprocessor is preferably contained within the component having radio communications apparatus. Each component preferably has a battery for providing power.